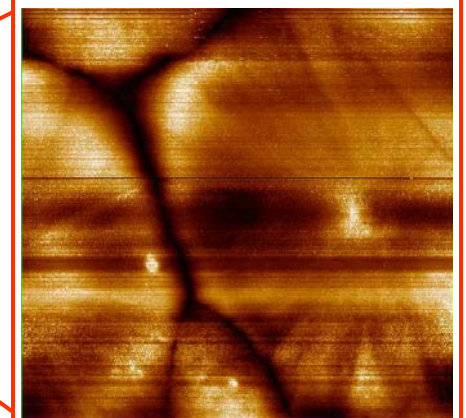
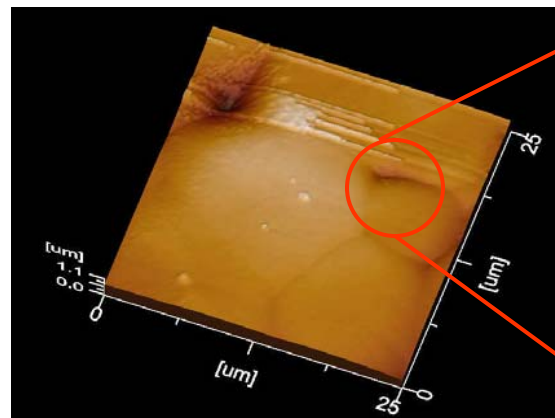
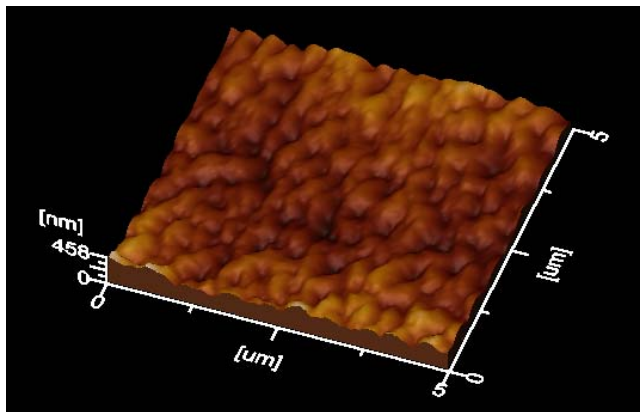


Acquisition of An Atomic Force Microscope for Research and Education

Paris R. von Lockette, Rowan University

DMR - 0216795



Low Temperature Behavior of PDMS: This award is being used to study the nanoscale spatial variation in elastic behavior of PDMS, a material widely used in soft-imprint nanolithography. These AFM topography images taken under low temperature (150K) and pressure ($1\text{E}-5$ Torr) conditions highlight features which appear intermittently across sections of the sample's surface.

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- **Education:** This instrument has been used in the research of **2 graduate students** and **4 faculty**, and has been used in the training/research of **9 undergraduates** including an REU (EEC-0353744) student from the University of Louisiana (shown). In addition, the instrument was used in an outreach program that reached **20 HS students**.
- **Industry:** The instrument has also generated a **partnership with a local company** to perform research on optical filters.

